



Agrotechnology

MANUAL

including
nursery management
and practices

Etomes Marcel N.



AGROTECHNOLOGY MANUAL

(Including Nursery Management & Practices)

About the Author

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FOREST AND ENVIRONMENTAL PROGRAMME FOR SUSTAINABLE DEVELOPMENT



NEW INDIA PUBLISHING AGENCY

New Delhi – 110 034



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ISBN: 978-93-83305-01-8

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Composed, Designed and Printed in India

DEDICATION

This piece of work is dedicated to;
My beloved father, Pa Simon Ekote Etomes,
For his patience and relentless efforts throughout
my academic program

Preface

This book is designed to acquire concepts and techniques for the sustainable development and management technology for plant production, development and conservation. The book is in six chapters that includes introduction, techniques in the creation and management of tree nursery, plant propagation [plant reproduction], management in the nursery, production of plants in the nursery and the agroforestry tree domestication technology to technicians and farmers interested or practicing Agroforestry and applied silviculture.

An insight of the book is aimed at gaining practical knowledge in the various chapters listed above. *Chapter one* brings out the definitions of silviculture Silviculture, forest nursery, forest, seeds, and the relationship between silviculture, forestry and forest management. *Chapter two* deals with the collection of seeds or planting materials (germplasm collection): propagation techniques, setting up a nursery, plant development in the nursery, plant propagation techniques, nursery shade house; substrates quality and composting: substrate quality, organic matter, set priority species, select best individual trees, seedling handling and nursery hygiene. *Chapter three* contains sexual reproduction in plants which is also known as plant propagation, seed harvesting, preparation and conservation, seedling quality and vegetative propagation. *Chapter four* elaborates on the nursery and includes, the creation of a nurseries; permanent nurseries, temporal or seasonal nurseries, choosing a nursery site and work in the nursery. *Chapter five* is the production of plants and includes sowing in the nursery, pricking out, the different types of plants produced in the nursery and the use of fertilizers. *Chapter six* brings out processes in the domestication technology: propagation techniques of agroforestry

trees, environment and landuse management of agroforestry trees in the farm; Scaling up agroforestry technology, uses of some non-timber forest products and conservation Agriculture [CA] in Cameroon.

This book will help to equipped prospective graduates, project designers and/or formulators with the knowledge to design their projects with ease. It will equally develop farmers' entrepreneurs with the knowledge to improve and exploit the agroforestry sector, plant production, nursery management and the management of agroforestry farms.

In a nutshell this book will equip you with;

- Equip engineers, technicians and farmers with techniques and concepts that will help those interesting in plant production, tree domestication and agroforestry to use to improve their output.
- Equip engineers, technicians and farmers with knowledge that will expentiate their skills to exploit the various technologies involved in the sector.
- Build engineers, technicians and farmers to bring out possible trials on how tree domestication could be sustainably disseminated to bring development in their country; fight poverty, loss of species and food in security; as it already being felt by farmers working with the World Agroforestry Center [ICRAF].
- Acquire, adapt and disseminate information on sustainable agricultural and development practices in their areas of intervention.

ETOMES Marcel N.

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Readership: Horticulture, Nursery Management, Agriculture, Plant Propagation and Breeding, Genetics, Forestry and Agroforestry, Agronomy, Silviculture and Agriculture Engineering as a whole. Managers and policy makers will also find it beneficial.

This book is designed to acquire concepts and techniques for the sustainable development and management technology for plant production, development and conservation.

The book has six chapters that includes introduction, techniques in the creation and management of tree nursery, plant propagation [plant reproduction], management in the nursery, production of plants in the nursery and the agroforestry tree domestication technology to technicians and farmers interested or practicing Agroforestry and applied silviculture.

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2014,120pages,col.plts.,figs.,tabls.,25cm

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